

Mechanical Cut vs. FreeWave™ Laser Cut



FreeWave™

Specialized Silicone Laser Processing

Free Your Design from DFM

Design for Manufacturing (DFM) forces engineers to make concessions in the name of manufacturability, rather than produce the optimal component needed for their project. The concept that you must adhere to the rules of DFM in order to successfully design a silicone molded part with intricate features or finishing elements is based on the current limitations of silicone processing and mechanical secondary operations. No more! With FreeWave™ specialized silicone laser processing you are no longer restricted by those constraints!

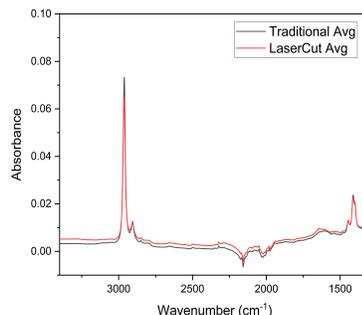
A New Wave in Silicone Processing

With Saint-Gobain's new FreeWave laser processing, you are now free to design the best possible part for unsurpassed medical device performance. Using our existing precision silicone molding expertise, combined with our new FreeWave laser processing, Saint-Gobain enables customers to create previously unimaginable part designs.

Features such as unique hole shapes and locations (i.e. through only one side of the part) are now a reality! The cuts are clean and char-free. Degradation of punch tooling often impacts quality and reliability of parts today. With FreeWave processing, quality and reliability are increased by the elimination of punch tooling as well as minimized part handling. FreeWave allows for quick, iterative prototyping that reduces the design development cycle.

No added or residual material after processing.

FTIR* Results



*Fourier transform infrared spectroscopy

Design Elements

- 360° Design freedom
- Precision cutting
- Design integrity

Technical Specifications

- Crisp edge cuts
- Char-free
- Spot size down to 15 microns
- Stable & repeatable process
- Variety of material thicknesses

Please refer to our Medical Products Disclaimer at www.medical.saint-gobain.com/resources/regulatory-and-quality/medical-product-disclaimer.

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable medical regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to misuse of the materials it provides arising out of the design, fabrication or application of the products into which the materials are incorporated.

Get in touch at medical.saint-gobain.com/contact-us

